

Notice of Allowability

Application No.

10/601,948

Examiner

Mujtaba K. Chaudry

Applicant(s)

MASSEY, PETER C.

Art Unit

2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/9/2006.
2. ☒ The allowed claim(s) is/are 4-11 and 13-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of _____.
- Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 1/9/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

GUY LAMARRE
PRIMARY EXAMINER

EXAMINER'S COMMENT

Applicant's response filed January 09, 2006 was received.

- Claims 4-11 and 13-21 are now in condition for allowance.
- Claim 1-3 and 12 were cancelled.
- Claim 4 and 13 were amended as indicated by Examiner in previous action.
- The corrections to the specification are accepted.

Case is passed to issue.

REASONS FOR ALLOWANCE

Claims 4-11 and 13-21 are allowed. The following is an Examiner's statement of reasons for allowance.

Independent claim 4 of the present application teaches, in part, a recursive table-lookup decoding method is a decoding method for a binary convolutional code of finite blocklength Z so as to produce: memory updated with digital data representing approximations for the maximum a posteriori reliability estimates for the number, equal to blocklength value, of information bits; and memory updated with digital data representing approximations for the extrinsic reliability estimates for the number, equal to blocklength value of information-bits, wherein the decoding method is a recursive table-lookup procedure comprising the steps: (a) initializing by storing of data into memory, (b) reading data from the memory, (c) reading data from a set of pre-stored lookup tables, (d) storing data read from lookup tables into the memory, (e) incrementing a memory location-address pointer, when initially given memory stored with digital data representing: the channel-symbol reliability estimates for the number, equal to blocklength value

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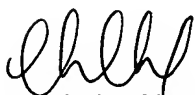
of parity-bits; previous extrinsic reliability estimates for the number, equal to blocklength value of information-bits; and maximum a posteriori reliability estimates for the number, equal to blocklength value of information-bits, which is a function of the previous extrinsic estimates, the a priori estimates, and the channel-symbol estimates. The foregoing limitations are not found in the prior arts of record.

Independent claim 13 includes similar limitations of independent claim 1 and therefore is allowed for similar reasons.

Dependent claims 5-11 and 14-21 depend from independent claims 4 and 13 and inherently include limitations therein and therefore are allowed as well.

Any inquiries concerning this communication should be directed to the examiner, Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, Albert DeCady at 571-272-3819.


Mujtaba Chaudry
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March 30, 2006


GUY LAMARRE
PRIMARY EXAMINER